

Fig. 2

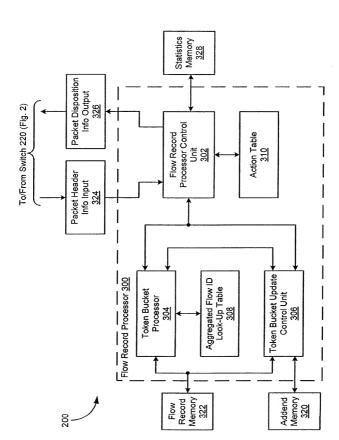


Fig. 3

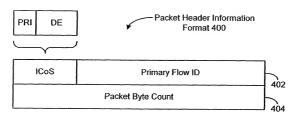


Fig. 4

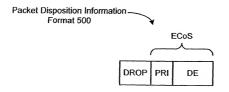


Fig. 5

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Packet Header Information Flow Rate Policing/ 1.1 Re-marking 602.1 Flow Rate Policing/ 1.1 Re-marking 602.1 Flow Flow Rate Policing/ 2.1 3.1 Re-marking Rate 604.1 Policing/ Remarking Flow Flow Rate Policing/ 608 2.J 3.JRe-marking 604.J Flow Flow Rate Policing/ 4.1 5.1 Re-marking 606.1

Fig. 6

Flow

5.K

Rate Policing/

Re-marking

606.K

Flow

4.K

Flow 6.1

Flow

6.L

Rate Policing/

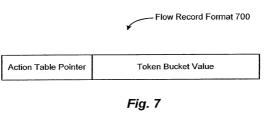
Re-

marking

610

Packet ➤Disposition

Information



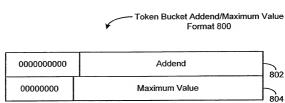


Fig. 8

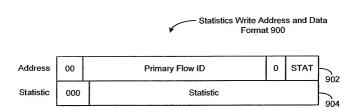


Fig. 9

___ Aggregated Flow ID Format 1000

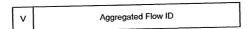


Fig. 10

Action Table Format 1100

Aggregated Flow Action Fields

New Primary Flow Action Fields

Fig. 11

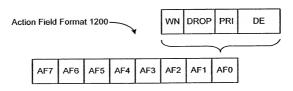


Fig. 12

```
Label: GetNextPacket
                         // From Packet Header Input
B = PacketByteCount
CCOS = ClassofServiceofPacket
NCCOS = NewClassofService
NCCOS = CCOS
// Use PrimaryFlowID to look-up primary token bucket flow record and
// AggregatedFlowID
PTB = TokenBucket(PrimaryFlowID)
ATB = TokenBucket(AggregatedFlowID)
ATP = ActionTablePointer(PrimaryFlowID)
V = ValidBit(PrimaryFlowID)
AFID = AggregatedFlowID(PrimaryFlowID)
// Use the ATP to get the current action table entry
AT1 = ActionTableLow(ATP) // Primary Action Table Entry
UseNewCos = ActionTableNew(ATP) // Action Table New Bit
AT2 = ActionTableHigh(ATP) // Aggregated Action Table Entry
// Perform the primary token bucket test
If PTB - B < 0;
      If Drop(AT1, CCOS) = True;
            Drop the packet:
            go to GetNextPacket:
      else
            NCCOS = NewCCOS(AT1, CCOS);
            If WholeNumber(AT1, CCOS) = False;
                   PTB = PTB - B:
else
      PTB = PTB - B;
```

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```
// Check the valid bit of the AggregatedFlowID
If V = False:
      Write NCCOS into egressPacketHeader;
      go to GetNextPacket:
else // Use AggregatedFlowID to look-up aggregated token bucket
      // flow record
      If UseNewCCOS = True;
            CCOS = NCCOS;
      // Perform the aggregated token bucket test
      If ATB - B < 0:
            If Drop(AT2, CCOS) = True;
                   Drop the packet;
                  go to GetNextPacket;
            else
                  NCCOS = NewCCOS(AT2, CCOS)
                   if WholeNumber(AT2, CCOS) = False;
```

ATB = ATB - B:

else

ATB = ATB - B; Write NCCOS into egressPacketHeader;

go to GetNextPacket;